Complete Summary

TITLE

Community-acquired pneumonia: percent of applicable patients admitted to the hospital for pneumonia who received pneumococcal immunization prior to admission (pneumonia -- antecedent care cohort).

SOURCE(S)

Office of Quality and Performance (10Q). FY 2005 VHA executive career field network director performance measurement system and JCAHO hospital core measures. Technical manual. Washington (DC): Veterans Health Administration (VHA); 2005 Mar 9. 244 p.

Brief Abstract

DESCRIPTION

This measure assesses the percent of applicable patients admitted to the hospital for pneumonia who received pneumococcal immunization prior to admission.

RATIONALE

Pneumonia (PN) is a major contributor to illness and mortality in the United States, causing 4 million episodes of illness and nearly one million hospital admissions each year. Pneumonia is the sixth leading cause of death overall and the leading cause of death caused by infection. The total costs of care of PN are estimated at more than \$9.7 billion annually and are dominated by the costs of hospital care. Patients with PN who are hospitalized have 20 times the cost of patients with PN who are treated as outpatients. In-hospital mortality for elderly (greater than 65 years) patients with PN is at least 20 percent. There is a considerable variation in hospital admission rates for PN patients and in the performance of important diagnostic tests and therapeutic processes. This variation suggests the lack of a consistent approach to appropriate and cost efficient management of this illness.

PRIMARY CLINICAL COMPONENT

Community-acquired pneumonia; pneumococcal immunization

DENOMINATOR DESCRIPTION

Patients hospitalized for pneumonia who meet criteria for pneumococcal immunization (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

The number of patients from the denominator hospitalized for pneumonia who received pneumococcal immunization prior to admission (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

Evidence Supporting the Measure

PRIMARY MEASURE DOMAIN

Process

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Use of this measure to improve performance Wide variation in quality for the performance measured

EVIDENCE SUPPORTING NEED FOR THE MEASURE

Office of Quality and Performance (10Q). FY 2005 VHA executive career field network director performance measurement system and JCAHO hospital core measures. Technical manual. Washington (DC): Veterans Health Administration (VHA); 2005 Mar 9. 244 p.

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

External oversight/Veterans Health Administration Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Ambulatory Care

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Advanced Practice Nurses Physician Assistants Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Single Health Care Delivery Organizations

TARGET POPULATION AGE

Age greater than 64 years (or younger if clinically indicated [see "Denominator Inclusions/Exclusions" field])

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

See "Rationale" field.

ASSOCIATION WITH VULNERABLE POPULATIONS

See "Rationale" field.

BURDEN OF ILLNESS

See "Rationale" field.

UTILIZATION

See "Rationale" field.

COSTS

See "Rationale" field.

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Staying Healthy

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Eligible patients from the Pneumonia -- Antecedent Care cohort*

*Refer to the original measure documentation for patient cohort description.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Clinical Condition Institutionalization

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Patients hospitalized for pneumonia who meet criteria for pneumococcal immunization*

- *Criteria for Pneumococcal Immunizations: Meets Respiratory: Community-Acquired Pneumonia Antecedent Care cohort selection criteria** AND seen anywhere in Veterans Health Administration (VHA) in the 24 months prior to admission AND are any one of the following:
 - Age greater than 64 years
- Age greater than or equal to 50 AND resident of long term care facility, Domiciliary, etc.
- Chronic heart failure, or cardiomyopathies, or past myocardial infarction (MI)
- Diagnosis of diabetes mellitus
- Diagnosis of chronic obstructive pulmonary disease (COPD), emphysema, or chronic pulmonary disease

Diagnosis of sickle cell disease or splenectomy

**Refer to the original measure documentation for patient cohort description and sampling size strategy. Patients transferred in from a long term care facility are eligible for inclusion.

Exclusions Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

The number of patients from the denominator hospitalized for pneumonia who received pneumococcal immunization* prior to admission

*Pneumococcal Immunization: documented in either inpatient or outpatient record.

Patient refusals count against the facility.

Exclusions Unspecified

DENOMINATOR TIME WINDOW

Time window is a single point in time

NUMERATOR TIME WINDOW

Episode of care

DATA SOURCE

Administrative and medical records data

LEVEL OF DETERMINATION OF QUALITY

Individual Case

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison Prescriptive standard

PRESCRIPTIVE STANDARD

Fiscal year (FY) 2005 targets for pneumococcal immunization (Pneumonia -- Antecedent Care cohort):

Facility Floor: 70%Meets Target: 85%Exceeds Target: 87%

EVIDENCE FOR PRESCRIPTIVE STANDARD

Office of Quality and Performance (10Q). FY 2005 VHA executive career field network director performance measurement system and JCAHO hospital core measures. Technical manual. Washington (DC): Veterans Health Administration (VHA); 2005 Mar 9. 244 p.

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Community-acquired pneumonia (CAP): pneumococcal immunization prior to admission.

MEASURE COLLECTION

<u>Fiscal Year (FY) 2005: Veterans Health Administration (VHA) Performance Measurement System</u>

MEASURE SET NAME

<u>Infectious</u>

MEASURE SUBSET NAME

Community Acquired Pneumonia

DEVELOPER

Veterans Health Administration

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2002 Nov

REVISION DATE

2005 Mar

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

Office of Quality and Performance (10Q). FY 2005 VHA executive career field network director performance measurement system and JCAHO hospital core measures. Technical manual. Washington (DC): Veterans Health Administration (VHA); 2005 Mar 9. 244 p.

MEASURE AVAILABILITY

The individual measure, "Community-Acquired Pneumonia (CAP): Pneumococcal Immunization Prior to Admission," is published in "FY 2005 VHA Performance Measurement System: Technical Manual."

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NQMC STATUS

This NQMC summary was completed by ECRI on November 5, 2004. The information was verified by the measure developer on December 10, 2004.

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